Technical Data

*For detailed data and product description refer to the data sheets at **www.pepperl-fuchs.com***

General Data	
Operating voltage	10 ... 30 V DC , ripple 10 %$_{SS}$
No-load supply current	≤ 50 mA
Interface type	RS 232, 9600 Bit/s , no parity, 8 data bits, 1 stop bit
Output type	2 switch outputs PNP, NO/NC, programmable
Rated operational current	200 mA , short-circuit/overload protected
Synchronization	bi-directional
Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
Material	
Housing	stainless steel (1.4305 / AISI 303), PBT plastic parts
Transducer	epoxy resin/hollow glass sphere mixture; polyurethane foam
Protection degree	sensor head: IP67 connector sensor head/controller unit: IP52
Connection type	Device connector M12 x 1 , 5-pin

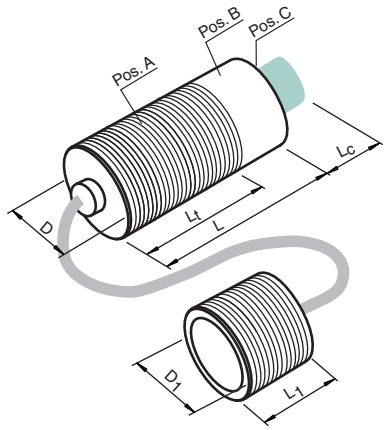
Properties

- 300 mm and 1000 mm sensing range versions
- DC, 2 switching outputs
- Ø30 mm cylindrical housing with separate head
- Connector version

Your Benefit

- Provides maximum sensing range in space-restricted mounting areas
- Potentiometer-free configuration via programming plug or ULTRA3000 software

Model Number		UC300-30GM-E6R2-K-V15	UC1000-30GM-E6R2-K-V15
Sensing range	30 ... 300 mm	●	
	80 ... 1000 mm		●
Transducer frequency	approx. 380 kHz	●	
	approx. 180 kHz		●
Switching frequency	≤ 2.5 Hz		●
	≤ 7 Hz	●	
Approvals and Certificates			
UL approval	cULus Listed, General Purpose	●	●
CSA approval	cCSAus Listed, General Purpose	●	●
Dimensions			
Length L [mm]		93,5	112
Diameter D [mm]		30	
Transducer diameter D_1 [mm]		18	30
Transducer length l_1 [mm]		25	27
Thread length l_t [mm]		71,5	90
Connector area l_c [mm]		10	
LED position		Pos. C	
Temperature / program plug		Pos. C , 27.5 mm	



Accessories

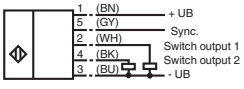
This and more accessories can be found in chapter 3.5 from page 673
See pages from 972 ... for cordsets
See pages 1068 ... for mounting aids

BF 30	Mounting flange, 30 mm
BF 30-F	Mounting flange with dead stop, 30 mm
BF 18	Mounting flange, 18 mm
BF 5-30	Universal mounting bracket for cylindrical sensors with a diameter of 5 ... 30 mm
BF 18-F	Mounting flange with dead stop, 18 mm
UC-30GM-R2	Programming cable
ULTRA3000	Software for ultrasonic sensors, comfort line
V15-G-2M-PVC	Cable socket, M12, 5-pin, PVC cable
V15-W-2M-PUR	Cable socket, M12, 5-pin, PUR cable

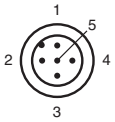
Electrical Connection

UC300-30GM-E6R2-K-V15
UC1000-30GM-E6R2-K-V15

Standard symbol/Connection:
(version E6, pnp)



Core colors in accordance with EN 60947-5-2.



Wire colors in accordance with EN 60947-5-2

1	BN	(brown)
2	WH	(white)
3	BU	(blue)
4	BK	(black)
5	GY	(gray)

Date of issue 04/08/2015

Technical Data

*For detailed data and product description refer to the data sheets at **www.pepperl-fuchs.com***

General Data	
Operating voltage	10 ... 30 V DC , ripple 10 %$_{SS}$
Power consumption	≤ 900 mW
Interface type	RS 232, 9600 Bit/s , no parity, 8 data bits, 1 stop bit
Output type	1 current output 4 ... 20 mA 1 voltage output 0 ... 10 V
Deviation of the characteristic curve	≤ 0.2 % of full-scale value
Synchronization	bi-directional
Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
Material	
Housing	stainless steel (1.4305 / AISI 303), PBT plastic parts
Transducer	epoxy resin/hollow glass sphere mixture; polyurethane foam
Protection degree	sensor head: IP67 connector sensor head/controller unit: IP52
Connection type	Device connector M12 x 1 , 5-pin

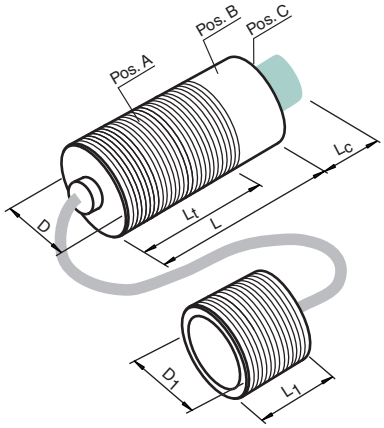
Model Number		UC300-30GM-IUR2-K-V15	UC1000-30GM-IUR2-K-V15
Sensing range	30 ... 300 mm	●	
	80 ... 1000 mm		●
Transducer frequency	approx. 380 kHz	●	
	approx. 180 kHz		●
Resolution	evaluation range [mm]/4000, but ≥ 0.05 mm	●	
	evaluation range [mm]/4000, but ≥ 0.35 mm		●
Approvals and Certificates			
UL approval	cULus Listed, General Purpose	●	●
CSA approval	cCSAus Listed, General Purpose	●	●
Dimensions			
Length L [mm]		112	
Diameter D [mm]		30	
Transducer diameter D_1 [mm]		18	30
Transducer length l_1 [mm]		25	27
Thread length l_t [mm]		90	
Connector area l_c [mm]		10	
LED position		Pos. C	
Temperature / program plug		Pos. C , 27.5 mm	

Properties

- 300 mm and 1000 mm sensing range versions
- DC, analog outputs
- Ø30 mm cylindrical housing with separate head
- Connector version

Your Benefit

- Provides maximum sensing range in space-restricted mounting areas
- Potentiometer-free configuration via programming plug or ULTRA3000 software



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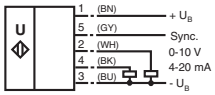
BF 30-F	Mounting flange with dead stop, 30 mm
BF 5-30	Universal mounting bracket for cylindrical sensors with a diameter of 5 ... 30 mm
UC-30GM-R2	Programming cable
ULTRA3000	Software for ultrasonic sensors, comfort line
DA5-IU-2K-V	Process control and indication equipment
V15-G-2M-PVC	Cable socket, M12, 5-pin, PVC cable
V15-W-2M-PUR	Cable socket, M12, 5-pin, PUR cable

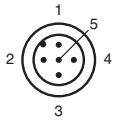
Electrical Connection

UC300-30GM-IUR2-K-V15
UC1000-30GM-IUR2-K-V15

Standard symbol/Connection:
(version IU)



Core colors in accordance with EN 60947-5-2.



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Date of issue: 04/08/2015

Consider the General Notes on the Information in the Pepperl+Fuchs Product Catalogs
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